

CURRICULUM VITAE

GERALD A. MANDELL, M.D.

OFFICE ADDRESS: Phoenix Children's Hospital
Department of Radiology
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Phoenix, Az. 85016-7710
Phone: (602) 546-1237

DATE OF BIRTH: December 20, 1943

PLACE OF BIRTH: Philadelphia, PA

MARITAL STATUS: Married w/ children

EDUCATION:

1961-62 Franklin and Marshall College
1962-65 B.A. University of Pennsylvania
1965-69 M.D. Jefferson Medical College

POSTGRADUATE TRAINING AND FELLOWSHIP APPOINTMENTS:

1969-70 Rotating Intern at Albert Einstein Medical Center, Philadelphia, PA
1970-73 Resident in Diagnostic Radiology at Thomas Jefferson University Hospital, Philadelphia, PA
1972 Three-month rotation at Armed Forces Institute of Pathology, Washington, DC
1973-74 Combined Fellowship, Pediatric Radiology, St. Christopher's Hospital for Children, Philadelphia, PA (4 months) and
Fellowship, Pediatric Radiology, Thomas Jefferson University Hospital, Philadelphia, PA (8 months)
1981-83 Fellowship, Nuclear Medicine, University of Pennsylvania Hospital, Philadelphia, PA

FACULTY APPOINTMENTS:

University of Pennsylvania, Philadelphia, Pennsylvania

1974-76 Instructor in Radiology

1976-77 Assistant Professor of Radiology

1984-92 Adjunct Associate Professor of Radiology

1992-06 Adjunct Professor of Radiology

Hahnemann Medical College and Hospital, Philadelphia,
Pennsylvania

1979 Associate Professor of Radiology

1979 Associate Professor Pediatrics

Jefferson Medical College

1990-2002 Professor of Radiology

1991-2002 Professor of Radiation Therapy and Nuclear
Medicine

University of Arizona

12/2008- Clinical Professor of Radiology

HOSPITAL APPOINTMENTS:

Childrens Hospital of Philadelphia, Philadelphia, Pennsylvania

1974-77 Associate Radiologist

1974-77 Director of Radiology Residency Training Program

1975-77 Member of Cancer Education Committee

1975-77 Member of the Therapeutic Standards Committee

1987-94 Senior Physician, Department of Radiology

Hahnemann Medical College and Hospital, Philadelphia,
Pennsylvania

1977-81 Director of Pediatric Radiology

1979-81 Director of Radiology Residency Training Program

DuPont Hospital for Children, Wilmington, Delaware

1993-02 Chief of Nuclear Medicine

1983-93 Associate Director of Medical Imaging, Chief of
Division of Radiology

1985-88 Member of Quality Assurance Committee

1986-88 Member of Credentials Committee

1988-90 Chairman of Credentials Committee

1989-96 Chairman of Clinical Research Review Committee

1989-02 Radiation Safety Officer
2007-

1989-92 Director of Research, Division of Clinical
Investigation

1991-95 Member of Medical Executive Committee

1992-96 Associate Director of Research, Division of
Clinical Research

1992 Chairman of Pediatric Urology Department Review

1992-96 Member of Clinical Research Funding Committee

1992-96 Member of Animal Care Use Committee

1993 President-Elect of Medical Executive Committee

1993 Chairman of Patient Care Review Committee

1993 Member of Clinical Research Center Business Plan
Task Force

1994 President of Medical Executive Committee

2007- Staff member of DuPont Hospital for Children

The Medical Center of Delaware - Christiana Hospital, Newark,
Delaware

1986-87 Provisional Staff, Department of Radiology
1988-90 Consulting Staff, Department of Radiology
1990-01 Associate Staff, Department of Radiology
1990-96 Member of Internal Review Board

Phoenix Children's Hospital, Phoenix, Az.

5/1/02- Staff Appointment
Member of NICU committee
1/06- Member of Scientific Research Committee
1/08- Emergency Medicine Committee
4/06- Phoenix Children's Medical Group
Pediatric Radiologist

Good Samaritan Hospital, Phoenix, Az.

5/1/02- Staff Appointment

St. Joseph's Hospital, Phoenix, Az.

5/1/02-04 Staff Appointment

Clinical Diagnostic Radiology

4/2002 - 12/2004 Partner, Private Practice Radiology Group

Kids' Imaging in the Desert, P.L.L.C.

12/15/2004 - 4/27/06

Partner, Private Practice Radiology Group

SPECIALTY CERTIFICATION:

1974 American Board of Radiology
1983 American Board of Nuclear Medicine
1996 American Board of Radiology - CAQ Pediatric
Radiology

LICENSURE:

Arizona (#MD 30266), 2002

Florida (#MD ME84107, 2002

Delaware (#MD C1002298), 1983

Pennsylvania (#MD 11898E), 1970

AWARDS, HONORS AND MEMBERSHIPS IN HONORARY SOCIETIES:

- 1980 Fellow of American Academy of Pediatrics
 Fellow of International College of Pediatrics
- 1987 Fellow of College of Physicians (Philadelphia)
- 1988 Fellow of American College of Angiology
- 1990 Fellow of American College of Radiology
- 1996-97 "The Best Doctors in North America - Northeast
 Region" -
 Nadeh & Smith, Woodward/White Inc.
- 1997 Best Doctors in Delaware" Delaware Magazine
- 1997-99 "Best Doctors in North America" Nadeh & Smith,
 Woodward/White, Inc.
- 2000-01 "Best Doctors in North America" Nadeh & Smith,
 Woodward/White, Inc.
- 2000 Top Pediatric Doctors- Philadelphia Magazine
- 2001-02 "Best Doctors in North America" Nadeh & Smith,
 Woodward/White, Inc.
- 2005-6 "Best Doctors in North America" Nadeh & Smith
 Woodward/White, Inc.
- 2007-8 "Best Doctors in North America" Nadeh & Smith
 Woodward/White, Inc.
- 2009 Fellow of the American College of Nuclear Physicians

MEMBERSHIPS IN PROFESSIONAL SOCIETIES:

- 1970- American Medical Association

- 1973- American College of Radiology
- 1975- Pediatric Radiological Society
- 1979- International Society of pediatrics
- 1980- American Academy of Pediatrics
- 1982- Society of Nuclear Medicine
- 1985- New York Academy of Sciences
- 1986- International Skeletal Society
- 1988-04 American College of Angiology
- 1990-94 Southern Pediatric Radiology Society
- 1993 Secretary - Treasury of Pediatric Council
Society of Nuclear Medicine
- 1993-02 Member of Health Care Committee,
Subcommission on Guidelines & Communication
Society of Nuclear Medicine
- 1994 President-Elect of Pediatric Council
Society of Nuclear Medicine
- 1994-96 President of Pediatric Council
Society of Nuclear Medicine
- 1996-98 Past-President of Pediatric Council
Society of Nuclear Medicine
- 1996-98 House of Delegates, Society of Nuclear Medicine

LOCAL MEDICAL SOCIETIES:

- 1975-2002 Philadelphia Roentgen Ray Society
- 1985-2002 Delaware Society of Nuclear Medicine
- 1986-2002 College of Physicians
- 1988-2002 New Castle County Medical Society

1988-2002 Delaware Radiologic Society
1988-95 Delaware Medical Society
1990-95 President of Delaware Society of Nuclear Medicine
1993 Alternate Delegate - Delaware Medical Society
2002- Arizona Medical Society
2002- Maricopa County Medical Society

EDITORIAL POSITIONS:

Journal of Nuclear Medicine, Reviewer, 1987, 1994 , 1999-
Clinical Nuclear Medicine, Associate Editor, 1996-

BIBLIOGRAPHY:

Peer-reviewed publications:

- *1. Mansfield C, Kramer S, Southard M, Mandell G: Prognosis in patients with metastatic liver disease diagnosed by liver scan. *Radiology*, 93:77-84, 1969.
- *2. Gohel V, Dalinka M, Mandell G, Azimi F: Pharmacoradiology of the gastrointestinal tract. *Critical Reviews in Clinical Radiology*, 5:69, 1974.
- *3. Casselman E, Miller W, Lin S, Mandell G: Von Recklinghausen's disease: Incidence of roentgenographic findings with clinical review of the literature. *Critical Reviews in Clinical Radiology*, 9:387, 1977.
- *4. Mahboubi S, Mandell G: Urinary extravasation during high dose excretory urography in a three-week old infant. *Clinical Pediatrics*, 16:844, 1977.
- *5. Mandell GA, O'Hara AE: Presumptive benign intra-abdominal calcifications: Adrenal and inferior vena cava. *American Journal of Diseases of Children*, 132:922,1978.
- *6. Mandell GA, Rosenberg H, Schnauffer L: Prolonged retention of foreign bodies in the stomach. *Pediatrics*, 60:460-462, 1977.

- *7. Kaufman HJ, Mahboubi S, Mandell GA: Monosteal involvement in Caffey's disease. *Skeletal Radiology*, 2:109-111, 1977.
- *8. Raney B, Mandell GA, Evans A, D'Angio G: Case of rhabdomyosarcoma of the nasopharynx. *Journal of Medical and Pediatric Oncology*. 1977
- *9. Casselman ES, Mandell GA: Vertebral scalloping in neurofibromatosis. *Radiology*, 7(3):178-179, 1978.
- *10. Mandell GA: The pedicle in neurofibromatosis. *AJR*, 130:675-679, 1978.
- *11. Mandell GA: Resolution of Hodgkin's induced ivory vertebrae. *Pediatric Radiology*, 7(3):178-179, 1978.
- *12. Mandell GA: Association of antral diaphragms and hypertrophic pyloric stenosis. *AJR*, 131:203-206, 1978.
- *13. Mandell GA, Kricun ME: Exaggerated anterior vertebral notching. *Radiology*, 131:367-369, 1979.
- *14. Raney B, Zimmerman RA, Bilaniuk LT, Mandell GA, Potsic W: Management of craniofacial sarcoma in childhood assisted by computed tomography. *International Journal of Radiation, Oncology, Biology and Physics*, 5:529-534, 1979.
- *15. Mandell GA, Dalinka MK, Coleman BF: Fibrous lesions in the lower extremities in neurofibromatosis. *AJR*, 133:1135-1138, 1979.
- *16. Mills JL, Spackman TJ, Borns P, Mandell GA, Jones R, Schwartz MW: The usefulness of lateral neck roentgenograms in laryngotracheobronchitis. *American Journal of Diseases of Children*, 133:1140-1142, 1979.
- *17. Schwartz EE, Katz S, Mandell GA: Post inflammatory pseudotumors of the lung. Fibrous histiocytoma and related lesions. *Radiology*, 136:609-613, 1980.
- *18. Smoger BR, Rosen FJ, Teplick SK, Mandell GA, Teplick JG: Small bowel obstruction caused by gaseous distention of the Cantor tube balloon. *AJR*, 135:612-613, 1980.
- *19. Teplick SK, Kaplan JM, Mandell GA, Richardson PA, Khanna OP: Percutaneous nephropylostomy in children with obstructive uropathy. *Postgraduate Medicine*, 71:217, 1982.

- *20. McCarten KM, Rosenberg HK, Borden SK, Mandell GA: Delayed appearance of right diaphragmatic hernia associated with Group B streptococcal infection in newborns. *Radiology*, 139:385-389, 1981.
- *21. Mandell GA, Teplick SK: Glucagon - its use in childhood gastrointestinal radiology. *Gastrointestinal Radiology*, 7:7-13, 1982.
- *22. Mandell GA, Pizzica AL: Air in the inferior accessory fissure of a neonate. *Journal of the Canadian Association of Radiologists*, 32:249-250, 1981.
- *23. Mandell GA, Chawla H: Chest tube positioning in neonatal pleural herniation. *AJR*, 137:1029-1031, 1981.
- *24. Mandell GA, Heyman S, Alavi A, Ziegler M: Splenic-gonadal fusion in association with microgastria. *Pediatric Radiology*, 13:95-98, 1983.
- *25. Mandell GA, Heyman S: Absent sternum on bone scan. *Clin Nucl Med* 8:327, 1983.
- *26. Mandell GA, Heyman S: Dorsal defect of patella on radionuclide bone scan. *Clin Nucl Med*, 8:380, 1983.
- *27. Mandell GA, Lantieri R, Goodman LR: Tracheobronchial compression in Hodgkin's lymphoma in children. *AJR*, 139:1167-1170,1982.
- *28. Makler PT, Velchik MG, Weingrad T, Mandell GA, Goldstein HA: Unusual appearance of a highly vascular lesion on Tc-99m DISIDA hepatobiliary scintigraphy. *Clin Nucl Med*, 8:483-485,1983.
- *29. Mandell GA, Heyman S: Accumulation of MDP in primary childhood hepatic malignancies and their metastases. *Clin Nucl Med*, 12:594-596,1983.
- *30. Heyman S, Mandell GA: Bone scintigraphy in congenital syphilis. *Clin Nucl Med*, 8:531-534,1983.
- *31. Mandell A, Swacus JR, Rosenstock J, Bock BE: Danger of urography in hyperuricemic children with Burkett's lymphoma. *J Can Assoc Radiol*, 34:273-277,1983.
- *32. Mandell GA, Heyman S: Midline circular photopenic defects of the sternum. *Brit J of Radiol*, 56:761,1983.

- *33. Mandell GA, Heyman S, Rosenberg HR, Golden D: Congenital syphilitic hepatitis: A case report with multiple imaging modalities. (syphilitic hepatitis). Eur J of Nucl Med, 8:505-506,1983.
- *34. Esterhai JL, Brighton CT, Heppenstall RB, Alavi A, Mandell GA: Technetium and gallium scintigraphic evaluation of patients with long bone fracture nonunion. Orthopedic Clinics of North America, 15:125-130, January, 1984.
- *35. Esterhai J, Alavi A, Mandell GA, Brown J: Sequential Technetium-99m/Gallium-67 scintigraphic evaluation of subclinical osteomyelitis complicating fracture nonunion. J Ortho Research, 3:219-225, 1985.
- *36. Mandell GA, Herrick WC, Harcke HT, Sharkey C, Brooks KM, MacEwen GD: Neurofibromas: Locating by Scanning with Tc-99m DTPA. Radiology, 157:803-806, 1985.
- *37. Mandell GA, Harcke HT: Subperiosteal hematoma: another scintigraphic "doughnut". Clin Nucl Med, 11:35-37, 1986.
- *38. Mandell GA, Heyman S: Extraosseous uptake of technetium-99m methylene diphosphonate in secondary deposits of neuroblastoma. Clin Nucl Med, 11:337-340, 1986.
- *39. Mandell GA, Harcke HT: Accumulation of MDP in an intramuscular hemangioma. Clin Nucl Med, 11:487-490, 1986.
- *40. Mandell GA, Harcke HT, Sharkey C, Brooks KM: Uterine blush in multiphase bone imaging. J of Nucl Med, 27:51-55, 1986.
- *41. Mandell GA, Harcke HT: Freiberg's infraction (or infarction?). J Nucl Med, 23:249-251, 1987.
- *42. Mandell GA, Snyder HM, Heyman S, Keller M, Kaplan JM, Norman ME: Association of congenital megacalycosis and ipsilateral segmental metaureter. Pediatric Radiology, 17:28-33, 1987.
- *43. Mandell GA, Harcke HT: Pelvic "doughnut" sign of incidental pregnancy on bone scintigraphy. Clin Nucl Med, 12:116-117, 1987.

- *44. Mandell GA, Harcke HT: Extrinsic causes of vesical filling defects on scintigraphy. Clin Nucl Med, 12:204-207, 1987.
- *45. Mandell GA, Harcke HT: Scintigraphy of persistent vertebral transverse process epiphysis. Clin Nucl Med, 12:359-362, 1987.
- *46. Mandell GA, Harcke HT, Sharkey CA, Brooks KM, MacEwen GD: SPECT Imaging of Para-axial neurofibromatosis with Tc-99m DTPA. J Nucl Med, 28:1688-1694, 1987.
- *47. Mandell GA, Harcke HT, Sharkey CA, Cooley LA: Post-prandial blush on multiphase bone scintigraphy. J Nucl Med, 28:1550-1553, 1987.
- *48. Harcke HT, Zapf SE, Mandell GA, Sharkey CA, Cooley LA: Quantitative bone scintigraphy in the evaluation of angular deformity of the lower extremity. Radiology, 164:437-440, 1987.
- *49. Mandell GA, Padman R, Brunson G, Delengowski R: CT digital radiograph: alternative technique for airway evaluation in physically disabled patients. Pediatric Radiology, 17:505-508, 1987.
- *50. Mandell GA, Finkelstein MS: Gastric Pneumatosis Secondary to an Intramural Feeding Catheter. Pediatric Radiology, 18:418-420, 1988.
- *51. McCarthy K, Velchik MG, Alavi A, Mandell GA, Epstein JL, Goll S: Indium-111-Labeled White Blood Cells in the Detection of Osteomyelitis Complicated by Pre-existing Condition. J Nucl Med, 29:1015-1021, 1988.
- *52. Riviello JJ, Marks HG, Lee MS, Mandell GA: Aqueductal Stenosis in Neurofibromatosis: A Report of 2 Cases. Neurofibromatosis, 1:312-317, 1988.
- *53. Mandell GA, Harcke HT, Bowen JR, Sharkey CA: Transient photopenia in the femoral head following arthrography. Clin Nucl Med, 14:397-404, 1989.
- *54. MacKenzie WG, Bassett GS, Mandell GA, Scott CI, Jr.: Avascular necrosis of the hips in multiple epiphyseal dysplasia. J Ped Orthop, 9:666-671, 1989.

- *55. Mandell GA, Finkelstein MS, Hallowell M: Delayed presentation of a symptomatic Morgagni hernia. Southern Medical Journal, 82:1299-1302, 1989.
- *56. Mandell GA, Scott CI, Jr., Harcke HT: Scintigraphic differentiation of congenital soft-tissue extremity enlargement with Tc-99m DTPA. Skeletal Radiology, 18:33-41, 1989.
- *57. Mandell GA, MacKenzie WG, Scott CI, Jr., Harcke HT, Wills JS, Bassett GS: Identification of avascular necrosis in the dysplastic proximal femoral epiphysis. Skeletal Radiology, 18:273-282, 1989.
- *58. Mandell GA, Harcke HT, Hugh J, Kumar SJ, Maas KW: Detection of talocalcaneal coalitions by magnification bone scintigraphy. J Nucl Med, 31:1797-1801, November 1990.
- *59. Finkelstein MS, Mandell GA, Tarbell KV: A cost-effective method for determining the imaging approach for the diagnosis of hypertrophic pyloric stenosis. Radiology, 177:759-762, December, 1990.
- *60. Caro PA, Mandell GA: Aneurysmal Bone Cyst of the Spine in Children. MRI Imaging at 0.5 Tesla. Pediatric Radiology, 21:114-116, 1991.
- *61. Mandell GA, Karet DA, Harcke HT, Bowen JR: Chondrolysis Detection by Bone Scintigraphy. J of Ped Orthop, 12:80-85, 1992.
- *62. Mandell GA, Harcke HT, Scott CI, Caro PA, Einsig HJ, Bowen RJ: Protrusio Acetabuli in Neurofibromatosis: Dysplastic and Nondysplastic forms. Neurosurgery, 30:552-556, 1992.
- *63. Mandell GA, Bellah RD, Boulden MC, Sherman NH, Harcke HT, Padman RJ, McNicholas KW: The Dynamics of the Cervical Trachea in Response to Herniation of the Normal Thymus. Radiology, 186:383-386, 1993.
- *64. Mandell GA, Harcke HT: Scintigraphy of the Painful Hip in Adolescents. Applied Radiology, 21:64-70, 1993.
- *65. Mandell GA, Meek RS: Infarctions of the Iliac in Young Patients with Sickle Hemoglobinopathies. Clin Nucl Med, 18:558-560, 1993.

- *66. Mandell GA, Morales RW, Harcke HT, Bowen JR: Bone Scintigraphy in Patients with Atypical Lumbar Scheuermann's Disease. J Ped Orthop, 13:622-627, 1993.
- *67. Mandell GA, Harcke HT: Scintigraphy of Spinal Disorders in Adolescents. Skeletal Radiol, 22:393-401, 1993.
- *68. Mandell GA, McNicholas KW, Padman R, Harcke HT: Innominate Artery Compression of the Trachea: Its Relationship to the Cervical Herniation of Normal Thymus. Radiology, 190:131-135, 1994.
- *69. Jasani MS, Nadkarni VM, Finkelstein MS, Mandell GA, Salzman MK, Norman ME: Endotracheal epinephrine administration technique effect in pediatric porcine hypoxic-hypercarbic arrest. Crit Care Med, 22A:152, 1994.
- *70. Taylor A, Mandell GA, Norman ME: Calcium Deficiency Rickets in a North American Child. Clin Pediatr, 33(8):494-497, 1994.
- *71. Grissom LE, Griffin GC, Mandell GA: Hypervitaminosis A as a Complication of Treatment for Neuroblastoma. Pediatric Radiology 26: 200-202, 1996.
- *72. Mandell G, Filmer B: "The Renal Axes in Spina Bifida: Issues of confusion and fusion". Abdominal Imaging 21: 541-545, 1996.
- *73. Cook SP, Lawless S, Mandell GA, Reilly JS: The use of the salivagram in the evaluation of severe and chronic aspiration. Ped Otorhinolaryngol 41: 353-361, 1997.
- *74. Mandell GA, Conteras SJ, Conard K, Harcke HT, Maas KW: Bone scintigraphy in chronic recurrent multifocal osteomyelitis. JNM, 39:778-783, 1998.
- *75. Mandell GA, Wolfson PJ, Adkins ES, et al. Cost-effective Imaging Approach to the Nonbilious Vomiting Infant. Pediatrics 103:1198-1202, 1999.

Non peer- reviewed publications:

1. Harcke HT, Grissom LE, Lee M, Mandell GA: Common congenital skeletal abnormalities of the thorax. Journal of Thoracic Imaging, 1:1-6, 1986.

2. Mandell GA, Harcke HT, Jay Kumar S: Congenital Disorders of the Extremities. Topics in Magnetic Resonance. December, 1991.
3. Mandell GA, Harcke HT, Jay Kumar S: Developmental Disorders of the Extremities. Topics in Magnetic Resonance. December, 1991.
4. Mandell GA, Harcke HT, Jay Kumar S: Avascular Necrosis and Related Conditions. Topics in Magnetic Resonance. December, 1991.
5. Mandell GA, Harcke HT, Jay Kumar S: Fibrous Lesions of the Extremities. Topics in Magnetic Resonance. December, 1991.
6. Mandell GA, Harcke HT, Jay Kumar S: Chondroid Lesions of Extremities. Topics in Magnetic Resonance. December, 1991.
7. Mandell GA, Harcke HT, Jay Kumar S: Osteoid Lesions of the Extremities. Topics in Magnetic Resonance. December, 1991.
8. Mandell GA, Harcke HT, Jay Kumar S: Miscellaneous Disorder of Extremities. Topics in Magnetic Resonance. December, 1991.
9. Maas KW, Mandell GA, Buchanan CA: Update on Pediatric Bone Scintigraphy. J Nucl Med Technology, 21:84-88, 1993.
10. Harcke HT, Mandell GA: Scintigraphic Evaluation of the Growth Plate. Seminars in Nuclear Medicine, 23(4):266-273, 1993.
11. Mandell GA, Alexander MA, Harcke HT: A Multiscintigraphic Approach to Imaging of Lymphedema and Other Causes of the Congenitally Enlarged Extremity. Seminars in Nuclear Medicine, 23(4):334-346, 1993.
12. Mandell GA: Imaging in the Diagnosis of Musculoskeletal Infections in Children. Current Problems in Pediatrics, 26(7):218-237, 1996.
13. Mandell GA, Cooper, JA, Majd, M, et al. Guideline for Pediatric Sedation in Nuclear Medicine. Society of Nuclear Medicine Procedure Guidelines JNM 38: 1640- 1643, 1997.

14. Mandell GA, Eggli DF, Gilday DL, et al. Guideline for Radionuclide Cystography in Children. Society of Nuclear Medicine Procedure Guidelines JNM 38: 1650 -1653, 1997.
15. Mandell GA, Cooper JA, Leonard JC, et al. Guideline for Diuretic Renography in Children. Society of Nuclear Medicine Procedure Guidelines JNM 38: 1647-1650, 1997.
16. Mandell GA. Eggli DF, Guilday DL, et al. Guideline for Renal Cortical Scintigraphy in Children. Society of Nuclear Medicine Procedure Guidelines. JNM 38: 1644-1646 1997.
17. Harcke HT, Mandell GA, Cassell I: Imaging Techniques in Childhood Arthritis" Rheumatic Disease Clinics NA W.B. Saunders 1997
18. Mandell GA: Economic issue in pediatric nuclear medicine: cortical scanning of acute pyelonephritis. Quarterly Journal of Nuclear Medicine 41: 302-308, 1997.
19. Mandell GA: Nuclear Medicine in Pediatric Orthopedics. Seminars in Nucl Med 28: 95-115, 1998.
20. Mandell GA: Nuclear Medicine in Pediatric Musculoskeletal Imaging. Seminars in Musculoskeletal Radiology Vol. 3, 1999. Pp. 289-316.

BOOKS (B) AND CHAPTERS (C)

1. "Pediatric Chest" in Teplick and Haskin (eds): Surgical Radiology. Philadelphia, Pennsylvania, W.B. Saunders, 1981. (C)
2. "Intensive Care Neonatal Chest" in Goodman and Putnam (eds): Intensive Care Radiology. Philadelphia, Pennsylvania, W.B. Saunders, 1982. (C)
3. "Intensive Care Neonatal Chest" in Goodman and Putnam (eds): Intensive Care Radiology. Philadelphia, Pennsylvania, W.B. Saunders, 1982. (2nd Edition). (C)

4. "Bone Trauma" in Silberstein, E.B. (ed): Bone Scintigraphy. Mount Kisco, New York, Futura Publishing, 1984. (C)
5. "Radionuclide Imaging" in Kricun, M.E. (ed): Imaging Modalities in Spinal Disorders. Philadelphia, Pennsylvania, W.B. Saunders, 1987. (C)
6. "Radionuclide Imaging" in Kricun, M.E.: Imaging in Bone Tumors. Philadelphia, Pennsylvania, W.B. Saunders, 1992. (C)
7. Mandell GA, Harcke HT: Imaging Strategies in Pediatric Orthopaedics. Aspen Publishers, Published September, 1990. (B)
8. "Imaging Evaluation of the Neonate" Goodman & Putnam, Critical Care Imaging, 3rd ed., W.B. Saunders, p. 413-472. (C)1993
9. "Musculoskeletal Scintigraphy" Miller & Gelfand. Pediatric Nuclear Imaging, W.B. Saunders, 1994. (C)
10. "Pediatric Bone Scanning" Collier, Fogelman, Rosenthal. Skeletal Nuclear Medicine. Mosby-Yearbook, 1996. (C)
11. Jasani MS, Nadkarni VM, Szatkowski M, Stefano J, Resnik P, Mandell GA and Salzman SK: Artificial Surfactant as a Vehicle for Endotracheal Epinephrine in Pediatric Porcine Arrest. Advances in Swine in Biomed Research (eds), Tumbleson & Schook, Plenum Press, New York, 1996. (C)
12. Mandell GA: Neurofibromatosis. Ferrucci's Radiology Diagnosis, Imaging and Intervention Lipincott-Raven 1998.
13. Contributed to Polin, Richard A., and Spitzer, Alan R. Fetal and Neonatal Secrets Lipincott Williams & Wilkins 2001.
14. Mandell GA, Harcke HT. "Trauma to The Growing Skeleton" Caffey's Pediatric Diagnostic Imaging 10th Ed. Mosby/WB Saunders. 2004.
15. Mandell GA, Harcke HT. "Osteochondroses" Caffey's Pediatric Diagnostic Imaging 10th Ed. Mosby/ WB Saunders. 2004
16. Mandell GA, Harcke HT. " The Child With a Limp" Practical Pediatric Radiology. Elsevier Health Sciences: Hilton S. editor. To be published.

17. Two electronic chapters Emedicine "Duodenal Atresia" and "Cystic Adenomatoid Malformation" 2002.

Abstracts and Communications

1. Raney B, Zimmerman R, Bilaniuk B, Littman P, Mandell GA: Computed tomography in craniofacial sarcoma of childhood. International Journal of Radiation Oncology, Biology and Physics, 2(2):149, 1977.
2. Mandell GA, Pizzica AL: Radionuclide diagnosis of a hematoma in an ovarian cyst. J Nucl Med, 22:930-931, 1981.
3. Mandell GA, Alavi A, Esterhai J: The role of Gallium-67 citrate imaging in evaluation of nonunited fractures for osteomyelitis. J Nucl Med, November 1983. (Abstract)
4. Harcke HT, Macy NJ, Mandell GA, MacEwen GD: Quantitative assessment of growth plate activity. J Nucl Med, 25:115, May 1984.
5. Brooks KM, Sharkey CA, Harcke HT, Mandell GA: Scintigraphic appearance of the pediatric sternum. J Nucl Med Tech, 12:89, June 1984.
6. Sharkey CA, Brooks KM, Harcke HT, Mandell GA: Patterns of uterine uptake in three-phase bone scintigraphy. J Nucl Med Tech, 13:Ab5, June 1985.
7. Brooks KM, Sharkey CA, Harcke HT, Mandell GA: Quantification: A comparison of magnification and pinhole technique. J Nucl Med Tech, 13:Ab6, June 1985.
8. Harcke HT, Mandell GA, Lee MS, Grissom LE: Evaluation scoliosis with digital radiographic techniques. AJR, 145:875, October 1985.
9. Mandell GA, Herrick WC, Harcke HT, Sharkey C, Brooks K, MacEwen GD: Localization of neurofibromas by scanning with technetium-99m diethylene triamine pentacetic acid (Tc-99-DTPA). AJR, 145:875, October 1985.

10. Mandell GA, Harcke HT, Sharkey CA, Brooks KM, MacEwen GD: SPECT imaging of para-axial neurofibromatosis with Tc-99m DTPA. J Nucl Med 27:932, June 1986.
11. Harcke HT, Mandell GA, Bowen JR, Sharkey CA, Cooley LA: Use of bone scintigraphy in surgical closure of the growth plates (epiphysiodesis). J Nucl Med, 4:716, April 1987.
12. Mandell GA, Harcke HT, Kumar SJ, Maas KW: Non-Osseous Subtalar Coalitions: The Role of Bone Scintigraphy. J Nucl Med, 30:799,1989.
13. Mandell GA: Transient Photopenia of the Femoral Head Following Arthrography (Letters to the Editor). Clin Nucl Med, 14:789, October 1989.
14. Mandell GA, Harcke HT: Secondary Chondrolysis in Slipped Epiphysis: Detection by Bone Scintigraphy. J Nucl Med, 31:742, 1990.
15. Mandell GA, Boulden MC, Harcke HT: Intermittent Cervical Thymus: Radiographic/Sonographic Correlation. J Ultrasound Medicine, 10:S21, 1991.
16. Pizzutillo PA, Mandell GA: Spinal Stenosis in Klippel Feil Syndrome. Presented at American Academy of Orthopaedic Surgeons. Anaheim, CA 1991.
17. Mandell GA, Alexander MA, Harcke HT, Maas KW, Ford K, Cartner T: A Multiscintigraphic Imaging Approach to Lymphedema. J Nucl Med, 33:874, 1992.
18. Harcke HT, Sobus KS, Alexander MA, Mandell GA: Skeletal Screening in Children with Traumatic Brain Injury. J Nucl Med, 33:873, 1992.
19. Ford K, Maas KW, Mandell GA, Harcke HT: Bone Malignancy Localization Using Thallium Imaging. J Nucl Med Tech, 20:107, 1992.
20. Nadkarni VM, Jasani MS, Finkelstein MS, Salzman SK, Mandell GA, Norman ME: Comparison of two doses of endotracheal epinephrine in porcine hypoxic-hypercarbic arrest. Crit Care Med, 21:A161, 1993.
21. Jasani MS, Nadkarni VM, Stefano J, Leef K, Salzman SK, Mandell GA, Kettrick R: Surfactant as a vehicle for endotracheal epinephrine in pediatric porcine arrest. Crit Care Med, 22:A152, 1994.

22. Mandell GA, Maas KM, Harcke HT: "Dumping Syndrome" in Neuromuscularly Disabled Children with Gastrostomies. J Nucl Med, 36:22P, May 1995.
23. Mandell GA, Contreras K, Maas K, Harcke HT: Scintigraphy of Physal Involvement in CRMO. J Nucl Med 37:23P, 1996.
24. Mandell GA: Letter to the editor re article by Mahboubi et al., on "Innominate arter compression of the trachea in infants". Int J Pediatr Otorhinolaryngol 3: 281-284, 1996.
25. Mandell GA, Finkelstein MS: The role of ultrasonography in the diagnosis of pyloric stenosis: a decision analysis. (letter to editor) J Pediatr Surg 34: 376, 1999.
26. Reed E, Moettcher M, Mandell G, Blecker U, Shaffer S, Mehta DI. Clinical correlates of dumping in neurologically challenged children. J Pediatr Gastroenterol Nutr 1999 29:A116.
27. Nadal T, Mandell G, Shaffer S, Reed E, Blecker U, Mehta DI. Measuring liquid gastric emptying time using ¹³C-glutamine. J Pediatr Gastroenterol Nutr 1999 29:A50

Department Publications

Radiologic Techniques of Children's Hospital of Philadelphia, 1974.

Preparation and Scheduling for Children's Hospital of Philadelphia, 1974.

Preparations for Radiologic Studies for Outpatients at Children's Hospital of Philadelphia, 1974.

Brochure "Pediatric Imaging" Alfred I. duPont Institute, 1984.

Radiation Safety Module for A.I. duPont Hospital for Children.1999. Revised in 2001.

Exhibits

1. Park, Chan and Mandell, Gerald A: Pericardial effusions detected by transmission-emission scanning. Presented at the American Roentgen Ray Society in Boston, 1972.
2. Casselman, Edward, Miller, Wallace and Mandell, Gerald A: Von Recklinghausen's disease. Presented at the American Roentgen Ray Society in Washington, DC, September 1976 and at the Radiological Society of North America in Chicago, November, 1977.
3. Mandell GA, Alavi A, Esterhai J: The role of Gallium-67 citrate imaging in the evaluation of nonunited fractures for osteomyelitis. Presented at Society of Nuclear medicine, St. Louis, June, 1983.
4. Harcke HT, Macy NJ, Mandell GA and MacEwen GD: Quantitative Assessment of Growth Plate Activity. Society of Nuclear Medicine, June, 1984 (Poster).
5. Riviello JJ, marks HG, Mandell GA, Lee MS: Aqueductal Stenosis in Neurofibromatosis. Child Neurology Society, Fall, 1985.
6. Mandell GA, Harcke HT, Sharkey C, Brooks KM, MacEwen GD: Planar and SPECT Imaging of Neurofibromatosis. American Roentgen Ray Society, April, 1986; Society of Nuclear Medicine, June, 1986: RSNA, November, 1986.
7. Campbell RM, Mandell GA, Bunnell WP, Marks HG: Pitfalls in the Diagnosis of Intraspinial Tumors. American Academy of Orthopedic Surgeons, San Francisco, January, 1987.
8. Harcke HT, Mandell GA, Bowen JR, Sharkey CA, Cooley LA: Use of Bone Scintigraphy in Surgical Closure of the Growth Plates (epiphysiodesis). Presented at the Society of Nuclear Medicine, Toronto, Canada, June, 1987
9. Mandell GA, Ford K, Maas KW: Pseudohorseshoe Configuration of the Kidneys in Meningomyelocele Patients, SNM, Cincinnati, June, 1991.
10. Maas KW, Ford K, Mandell GA, Harcke HT: Scintigraphic Detection of Tracheal Aspiration in Children. SNM, Los Angeles, June, 1992.
11. Jasani MS, Nadkarni VM, Finkelstein MS, Mandell GA, Norman ME: Endotracheal Epinephrine Administration in Porcine Hypoxic Hypercarbic Arrest. Educational and Scientific

Symposium, Society of Critical Care Medicine, New York,
June, 1993.

Presentations

1. Brooks KM, Sharkey CA, Harcke HT, Mandell GA, Jarad B and Gainey MA: Scintigraphic appearance of pediatric sternum. Society of Nuclear Medicine, 1984.
2. Harcke HT, Mandell GA, Lee MS and Grissom LE: Evaluating Scoliosis with Digital Radiographic Techniques. Society of Pediatric Radiology, April, 1985.
3. Mandell GA, Herrick WC, Harcke HT, Sharkey CA, Brooks KM and MacEwen GD: Localization of neurofibromas by scanning with technetium-99m diethylene triamine pentacetic acid (Tc99m DTPA). Society of Nuclear Medicine, April, 1985.
4. Mandell GA, Herrick WC, Harcke HT, Sharkey CA, Brooks KM and MacEwen GD: Localization of neurofibromas by scanning with technetium-99m diethylene triamine pentacetic acid (Tc99m DTPA). Society of Nuclear Medicine, June, 1985.
5. Sharkey CA, Harcke HT, Mandell GA and Cooley LA: SPECT techniques in evaluation of growth plate abnormalities about the knee. Society of Nuclear Medicine, June, 1986.
6. Sharkey CA, Harcke HT, Mandell GA: Operative localization of bone lesions: Responsibilities of the technologist. Society of Nuclear Medicine. June, 1986.
7. Mandell GA, Harcke HT, Sharkey CA, Brooks KM, and MacEwen GD: SPECT imaging of para-axial neurofibromatosis with Tc-99m DTPA. Society of Nuclear Medicine. June, 1986.
8. McCarthy KE, Velchik MG, Alavi A, Mandell GA, Esterhai J, and Goll S: Accuracy and reliability of In-WBCs in osteomyelitis. Society of Nuclear Medicine. June, 1986.
9. Harcke HT, Mandell GA, Sharkey CA, and Cooley LA: Angular deformity of the lower extremity: evaluation by bone scintigraphy. Society of Nuclear Medicine. June, 1986.
10. Mandell GA: "Scintigraphic Differentiation of Extremity Enlargement with Tc-99m DTPA". International Skeletal Society. September, 1987.

11. Mandell GA, Harcke HT, Kumar SJ, Maas KW: Non-osseous subtalar coalitions: the role of bone scintigraphy. Society of Nuclear Medicine. June, 1989.
12. Pizzutillo PD, Mandell GA, Schoedler SJ, Menduke H: Cervical Spine Stenosis in Klippel-Feil Syndrome. European Cervical Spine Society in Geneva, Switzerland. June, 1989.
13. Caro PA, Mandell GA: Aneurysmal Bone Cyst of the Spine in Children MRI Imaging at 0.5 Tesla. Society of Pediatric Radiology. April, 1990.
14. Maas KW, Ford KA, Harcke HT, Mandell GA: Iatrogenic Scintigraphic Abnormalities in Children Secondary to Restraint. Society of Nuclear Medicine. June, 1990.
15. Ford KA, Maas KW, Mandell GA, Harcke HT: Techniques for Scintigraphy of the Feet in Children. Society of Nuclear Medicine. June, 1990.
16. Mandell GA, Harcke HT: Secondary Chondrolysis in Slipped Epiphysis: Detection by Bone Scintigraphy. Society of Nuclear Medicine, Washington, D.C. June, 1990.
17. Mandell GA: Scintigraphy of Painful Feet in Children. Refresher course of International Skeletal Society, Salzburg, Austria. September, 1990.
18. Mandell GA, Boulden ME, Harcke HT: Intermittent Cervical Thymus: Radiographic/Sonographic Correlation. American Institute of Ultrasound in Medicine, Atlanta, GA. February, 1991.
19. Mandell GA: Case Presentation-Histiocytosis. Closed Meeting, International Skeletal Society, San Diego, California. September, 1991.
20. Mandell GA: Protrusio Acetabuli in Neurofibromatosis: Dysplastic and Nondysplastic. International Skeletal Society, San Diego, California. September, 1991.
21. Mandell GA: Scintigraphy of the Painful Hip in Adolescents. International Skeletal Society, San Diego, September, 1991.
22. Finkelstein MS, Jasani MS, Nadkarni VM, Mandell GA, Norman ME: Endotracheal Administration Technique Effects on

- Epinephrine Distribution in a Pediatric Hypoxic-Hypercarbic Arrest Model.
Society for Pediatric Radiology, Orlando, FL. May, 1992.
23. Finkelstein MS, Jasani MS, Nadkarni VM, Mandell GA, Norman ME: Technetium Tube Adherence (TTA) in an Endotracheal Epinephrine Resuscitation Model. Society for Pediatric Radiology, Orlando, FL. May, 1992.
 24. Mandell GA, Alexander MA, Harcke HT, Maas KW, Ford K, Cartner T: A Multiscintigraphic Imaging Approach to Lymphedema. Society of Nuclear Medicine, Los Angeles, California. June, 1992.
 25. Harcke HT, Sobus KS, Alexander MA, Mandell GA: Skeletal Screening in Children with Traumatic Brain Injury. Society of Nuclear Medicine, Los Angeles, California. June, 1992.
 26. Mandell GA: Scintigraphy of Atypical Scheuermann Disease. International Skeletal Society, Stockholm, Sweden. August, 1992.
 27. Mandell GA: Scintigraphy of Spinal Disorders in Adolescents. Refresher course of International Skeletal Society, Stockholm, Sweden. August, 1992.
 28. Mandell GA: Case Presentation #46: Chloroma. International Skeletal Society, Toronto, Canada. August, 1993.
 29. Mandell GA, Maas K, Harcke HT: Dumping Syndrome in Neuromuscularly Disabled Children with Gastrostomies. Society of Nuclear Medicine, Minneapolis, MN. June, 1995.
 30. "Renal Axes in Spina Bifida: The Issues of Fusion and Confusion." 6th World Congress of the World Federation of Nuclear Medicine and Biology, Sydney, Australia. October 26, 1994
 31. "Pediatric Bone Imaging - Indication and Technique." Technologist Continuing Education. Society of Nuclear Medicine, Minneapolis, MN June 12, 1995.
 32. International Skeletal Society, New Orleans, LA - "Scintigraphy of Chronic Recurrent Multifocal Osteomyelitis." October 10, 1995.

33. International Pediatric Radiology, Boston, MA -
"Relationship of Ureaplasma Urealyticum Infection to the
Precocious Development of BPD in Preterm Infants." May,
1996.
34. Society of Nuclear Medicine, Denver, CO - "Scintigraphy of
Physal Involvement in CRMO." June 4, 1996.
35. Pacific Coast Pediatric Radiology Society, Alaska -
"Scintigraphy of CRMO." July 3, 1996.
36. International Skeletal Society, Paris, France - Case
Presentation "Paravertebral Abscess in Cat Scratch
Disease." August 20, 1996.
37. International Skeletal Society, Paris, France -
"Scintigraphy of Musculoskeletal Infection in Children."
August 24, 1996.
38. International Skeletal Society, Santa Fe, New Mexico -
Case Presentation "Multicentric Giant Cell Tumor" September
9, 1997.
39. International Skeletal Society, Santa Fe, New Mexico-
Neurofibromatosis - A New Look at an Old Disease" September
12, 1997.
40. Cojoint Meeting of SPRS and MPRS, Birmingham, Ala.
"Multicentric Giant Cell Tumor" and " Ischioiliac dysplasia in
NF" October 26, 1997.
41. Society of Pediatric Radiology: "Scintigraphic Detection
of Dumping Syndrome in the Neuromuscularly Disabled" May
15,1999 Vancouver, BC
42. Refresher coursse of International Skeletal Society:
Radiographic Manifestations in the Pediatric Skeleton of
Neuromuscular Disease. August, 2000 Barcelona, Spain.
43. Refresher course of International Skeletal Society;
Scintigraphic Evaluation of Musculoskeletal Tumors in Children
Sept 2003 San Francisco.
44. Refresher course of International Skeletal Society:
Scintigraphy of Childhood Sarcomas. Sept 2004 Malta
45. Society of Nuclear Medicine: Lymphoscintigraphy in
Children. June 2005 Toronto, Canada

45. Refresher course of International Skeletal Society:
Scintigraphy of Childhood Osteomyelitis. Oct 2005 Singapore

46. Refresher course of International Skeletal Society:
Osseous Overgrowth in Children. Sept. 2006, Vancouver, Ca.

47. Grand Rounds at Phoenix Childrens Hospital on 12/3/08.
Current Concepts in Pediatric Nuclear Medicine

Lectures by Invitation:

Panel Moderator, Philadelphia Roentgen Ray Society,
November, 1978.

Participant Diagnostic Radiology Grand Rounds, Hahnemann
Hospital, March, 1978.

Philadelphia Blue Ribbon Course "Pediatric Mediastinal
Tumors", December, 1978.

Panel Moderator, Pediatric Radiology Grand Rounds, Hahnemann
Hospital, March, 1979.

Orthopedics Concepts Course "Scintigraphy of the Hip."
October, 1984.

Film Reading Panel, Philadelphia Roentgen Ray Society.
October, 1984.

"Planar and SPECT Imaging in Neurofibromatosis."
Philadelphia Nuclear Medicine Society. September, 1985.

"Localization of Neurofibromas with Technetium 99m DTPA."
St. Vincent's Hospital and Medical Center of New York,
Department of Radiology. February, 1986.

"Scintigraphic Imaging of Pediatric Hip." Philadelphia
Nuclear Medicine Society. September, 1986.

"Planar and SPECT Imaging of Neurofibromatosis with Tc-99m
DTPA." Neurofibromatosis Society, Philadelphia,
Pennsylvania. November, 1986.

"Imaging of Pediatric Airway." Pediatric Conference, A.I.
duPont Institute. November, 1986.

"Planar and SPECT Imaging of Neurofibromatosis." Research
Seminar, A.I. duPont Institute. December 16, 1986.

"Scintigraphic Imaging of Neurofibromatosis." Pediatric Imaging Update Course, Children's Hospital of Philadelphia. March, 1987.

"Cold Pediatric Skeletal Lesions." Philadelphia Nuclear Medicine Society. September, 1988.

"Newer Imaging Strategies of the Pediatric Hip." Coffee Rounds, Hospital of University of Pennsylvania. October 30, 1989.

"Scintigraphy of Pediatric Hip." St. Vincent's Hospital and Medical Center, New York. March, 1990.

"Photopenic Lesions on Skeletal Scintigraphy." Society of Nuclear Medicine (Technicians' Education Program), Washington, D.C. June, 1990.

"Reading X-rays for Non-Radiologists." Urgent Care, Inservice Rounds, A.I. duPont Institute. August 8, 1990.

"Scintigraphy of Painful Feet." Teaching Conference, Hospital of University of Pennsylvania. November 5, 1990.

"What's Exciting in Pediatric Skeletal Scintigraphy." Coffee Rounds - Radiology Department, Hospital of University of Pennsylvania. December 10, 1990.

"Fractures in Children." Urgent Care, Inservice, A.I. duPont Institute. December 12, 1990.

"Scintigraphy of Back Pain in Children." Coffee Rounds - Radiology Department, Hospital of University of Pennsylvania. January 28, 1991.

"New Concepts in Pediatric Bone Scintigraphy." St. Vincent's Hospital and Medical Center, New York. February 11, 1991.

"Chondrolysis: Detection by Bone Scintigraphy." Southern Pediatric Radiology Conference, Key West, Florida. March 1, 1991.

"Scintigraphy of Neurofibromatosis." Morning Seminar in Nuclear Medicine, Hospital of University of Pennsylvania. May 20, 1991.

"Renal Scintigraphy in Children." Morning Seminar in Nuclear Medicine, Hospital of University of Pennsylvania. June 3, 1991.

"Soft-Tissue Scintigraphy." Coffee Rounds - Radiology Department, Hospital of University of Pennsylvania. July 22, 1991.

"Scintigraphy of Painful Hip in Pediatrics." Coffee Rounds - Radiology Department, Hospital of University of Pennsylvania. August 26, 1991.

"Lymphoscintigraphy." Delaware Nuclear Medicine Society. December 8, 1991.

"Lymphoscintigraphy I." Coffee Rounds - Radiology Department, Hospital of University of Pennsylvania. November 11, 1991.

"Lymphoscintigraphy II." Coffee Rounds - Radiology Department, Hospital of University of Pennsylvania. January 26, 1992.

"Pediatric Renal Scintigraphy." Coffee Rounds - Radiology Department, Hospital of University of Pennsylvania. February 10, 1992.

"Cervical Thymus." Southern Pediatric Radiology Conference, Longboat Key, Florida. February 28, 1992.

"Renal Imaging Using Tc-99m MA63." Society of Nuclear Medicine - Technologist Section, Los Angeles, California. June, 1992.

Participation in College Bowl Competition - Society of Nuclear Medicine, Greater New York Chapter, Los Angeles, California. June, 1992.

"Scintigraphy of Painful Hip in Pediatrics." Coffee Rounds - Radiology Department, Hospital of University of Pennsylvania. August 10, 1992.

"Scintigraphy of Painful Spine in Adolescents." Coffee Rounds - Radiology Department, Hospital of University of Pennsylvania. October 29, 1992.

"Multiscintigraphic Approach to Lymphedema." Coffee Rounds - Radiology Department, Hospital of University of Pennsylvania. November 9, 1992.

"The Limping Child." Family Practice Resident Teaching, St. Francis Hospital, Wilmington, Delaware. November 10, 1992.

"Spinal Scintigraphy in Adolescents with Low Back Pain." Loma Linda University, Loma Linda, California. December 8, 1992.

"Pediatric Skeletal Photopenia." Coffee Rounds - Radiology Department, Hospital of University of Pennsylvania. January 11, 1993.

"Spinal Scintigraphy in Adolescents with Low Back Pain." Temple University Hospital, Philadelphia, Pennsylvania. January 15, 1993.

"Pediatric Bone Scintigraphy in Children." American College of Nuclear Physicians, Orlando, Florida. February 27, 1993.

"Pediatric Bone Update." Co-moderator of Course, Society of Nuclear Medicine, Toronto, Canada. June 7, 1993.

"Pediatric Musculoskeletal Infection Imaging." Seminar Course - Society of Nuclear Medicine, Toronto, Canada. June 7, 1993.

"Lymphedema in Pediatric Population." Grand Rounds - A.I. duPont Institute. August 25, 1993.

"Protrusio Acetabuli in Neurofibromatosis." Neuhauser Society, Cape Cod, MA. September 11, 1993.

"Imaging Musculoskeletal Tumor." Coffee Rounds - Radiology Department, Hospital of University of Pennsylvania. September 13, 1993.

"Pediatric Musculoskeletal Infection." Coffee Rounds - Radiology Department, Hospital of University of Pennsylvania. October 11, 1993.

"Multiscintigraphic Approach to Enlarged Extremity." Coffee Rounds - Radiology Department, Hospital of University of Pennsylvania. November 8, 1993.

"Pediatric Bone Update." Delaware Nuclear Medicine Society, Newark, Delaware. December 6, 1993.

"Pediatric Bone Update." Coffee Rounds - Radiology Department, Hospital of University of Pennsylvania. January 10, 1994.

"Imaging of the Airway." Grand Rounds, A.I. duPont Institute. February 23, 1994.

"Pediatric Bone Update." Radiology Department - Jefferson Medical College. March 22, 1994.

"Congenital Enlarged Extremity." Seminar Course - Society of Nuclear Medicine, Orlando, Florida. June, 1994.

"Honey, I Nuked the Kids." Co-moderator of Seminar Course - Society of Nuclear Medicine, Orlando, Florida. June, 1994.

"Bone Imaging Update." Annual Meeting - Society of Nuclear Medicine (Technologist Course), Orlando, Florida. June, 1994.

"Advances in Medical Imaging." Moderator of Categorical Course - Society of Nuclear Medicine, Orlando, Florida. June 1994.

"Renal Axes in Spina Bifida: The Issues of Fusion and Confusion." Coffee Rounds - Radiology Department, Hospital of University of Pennsylvania. September 12, 1994.

"Renal Axes in Spina Bifida: The Issues of Fusion and Confusion." Neuhauser Society, Annapolis, Maryland. September 23, 1994.

"Neurofibromatosis: A Case Conference." Grand Rounds - A.I. duPont Institute. September 28, 1994.

"Chronic Recurrent Multifocal Osteomyelitis: Current Imaging." Southern Pediatric Radiology Society, Asheville, North Carolina. October 1, 1994.

"Ureaplasma Pneumonia in Infants." Southern Pediatric Radiology Society, Asheville, North Carolina. October 2, 1994.

"Bone Infection in Children." Coffee Rounds - Radiology Department, Hospital of University of Pennsylvania. October 10, 1994.

"College Bowl (USA Team). 6th World Congress of the World Federation of Nuclear Medicine and Biology, Sydney, Australia. October 28, 1994.

"Scintigraphy of the Knee." Coffee Rounds - Radiology Department, Hospital of University of Pennsylvania. December 12, 1994.

"Scintigraphy of Painful Feet." Coffee Rounds - Radiology Department, Hospital of University of Pennsylvania. January 9, 1995.

"Scintigraphy of Enlarged Extremity." Coffee Rounds - Radiology Department, Hospital of University of Pennsylvania. March 13, 1995.

"Imaging of the Pediatric Airway." Radiology Department - Jefferson Medical College. May, 1995.

"Pediatric Bone Imaging Indication and Technique." Technologist Continuing Education - Society of Nuclear Medicine, Minneapolis, Minnesota. June 12, 1995.

"Honey, I Nuked the Kids, Part 2." Co-moderator of Educational Seminar Course - Society of Nuclear Medicine, Minneapolis, Minnesota. June, 1995.

"Scintigraphy of the Pediatric Physis." Coffee Rounds - Radiology Department, Hospital of University of Pennsylvania. August 28, 1995.

"Scintigraphy of the Painful Knee." Coffee Rounds - Radiology Department, Hospital of University of Pennsylvania. October 7, 1995.

Assorted Cases. Coffee Rounds - Graduate Course in Nuclear Medicine, Hospital of University of Pennsylvania. December 11, 1995.

"Pediatric Renal Scintigraphy." Coffee Rounds - Radiology Department, Hospital of University of Pennsylvania. January 22, 1996.

"Scintigraphy of Osteomyelitis." Radiology Department - Jefferson Medical College. January 25, 1996.

"Potpourri of Pediatric Scintigraphic Images." Coffee Rounds - Radiology Department, Hospital of University of Pennsylvania. March 11, 1996.

"Tumor Imaging in Pediatrics." Co-moderator of Educational Seminar - Society of Nuclear Medicine, Denver, Colorado. June 2, 1996.

Co-moderator of Pediatric GI Update - Society of Nuclear Medicine, Denver, Colorado. June 6, 1996.

"Scintigraphy of CRMO." Pacific Northwest Pediatric Association, Alaska. July 2, 1996.

"Musculoskeletal Infection in Children." Coffee Rounds- Radiology Department, Hospital of University of Pennsylvania. October 14, 1996,

"Scintigraphy of the Adolescent Spine." Coffee Rounds- Radiology Department. Hospital of University of Pennsylvania, November 11, 1996.

"Musculoskeletal Imaging in Pediatrics" Nuclear Medicine Graduate Course at Hospital of University of Pennsylvania (3 hrs) January 24, 1997.

"Potpourri of Musculoskeletal Cases (Cat Scratch Fever)" Coffee Rounds- Radiology Dept. Hospital of University of Pennsylvania January 27, 1997.

"Scintigraphy of Fused Kidneys* Coffee Rounds Radiology Dept. Hospital of University of Pennsylvania March 10, 1997.

"The Dynamics of the Pediatric Airway in Health and Disease" Grand Rounds. Thomas Jefferson University Hospital April 8, 1997.

Moderator of Categorical Educational Seminar "Imaging of Musculoskeletal System and Uses of Gallium in Children" at Society of Nuclear Medicine, June 1, 1997 San Antonio, Texas.

"Normal Variant / Developmental Anomalies - Pediatric Bone Scan" Categorical Seminar at Society of Nuclear Medicine, June 1, 1997, San Antonio, Texas.

"Infection of Pediatric Musculoskeletal System" Categorical Seminar at Society of Nuclear Medicine, June 1, 1997, San Antonio, Texas.

Moderator of "Read with the Experts - Pediatrics" at Society of Nuclear Medicine, June 3, 1997, San Antonio, Texas.

Case Presentation ; "Multifocal Giant Cell Tumor "September 6 , 1997, International Skeletal Society, Santa Fe, New Mexico

Coffee Rounds. Hospital of Univ. Pa. " Musculoskeletal Infection in Pediatrics" Oct. 13 ,1997.

Scintigraphy of Painful Hip" Coffee Rounds- Radiology Department, Hospital of University of Pennsylvania. November, 1997.

"Renal Imaging" St. Francis Hospital. Delaware Technological Society, December 12, 1997.

"Scintigraphy of the Limping Child" Coffee Rounds Radiology Department, Hospital of University of Pa. February 1998.

Moderator of Categorical Course "Common Pediatric Procedures: Optimizing Technique and Interpretation" at Society of Nuclear Medicine, Toronto, June 9, 1998.

"Pediatric Sedation" Society of Nuclear Medicine, Toronto, June 7, 1998.

Co-moderator of "Read with the Experts - Pediatrics" Society of Nuclear Medicine, Toronto, June 9,1998.

Moderator of Pediatric Session of Musculoskeletal Refresher Course of the International Skeletal Society in Dublin, Ireland, September 11, 1998.

Moderator of "Role of Nuclear Medicine in Osteomyelitis" at the Post- International Nuclear Medicine Congress Seminar in Pediatric Nuclear Medicine at Munich, Germany September 5, 1998.

"Imaging the Child with Limp" Coffee Rounds - Hospital of University of Pennsylvania 11/9/98.

"Potpourri of Pediatric Nuclear Studies' Coffee Rounds -
Hospital of University of Pennsylvania 12/14/98.

"Renal Scan in Pediatrics"- Coffee Rounds - Hospital of
University of Pennsylvania April 12, 1999

"Dumping Syndrome" - Coffe Rounds - Hospital of University
of Pennsylvania May 10, 1999.

"Imaging of the Limping Child" - Coffee Rounds - Hospital of
University of Pennsylvania, Oct. 11, 1999.

Musculoskeletal Imaging Coffee Rounds- Hospital of
University of Pa.
Nov. 2000

"Painful Hip" Coffee Rounds Hospital of University of
Pennsylvania, Nov. 2001.

PRINCIPAL INVESTIGATOR OR GRANTS:

"Early Detection of Cardiomyopathy in Duchenne and Becker's
Muscular Dystrophy." American Heart Association of
Delaware. July, 1989.

OTHER GRANTS:

"Pulmonary Distribution of Endotracheally Administered
Epinephrine in Pediatric Resuscitation." Society for
Pediatric Radiology, 1991.

"Effects of Endotracheal Administration Technique on
Distribution and Efficiency of Epinephrine in Pediatric
Resuscitation." American Heart Association, 1991.

"Effects of Endotracheal Administration Technique on
Distribution and Efficiency of Epinephrine in Pediatric
Resuscitation." Mallinckrodt Critical Care, 1992-93.

MAJOR TEACHING AND CLINICAL RESPONSIBILITIES:

University of Pennsylvania:

Participation in the Postgraduate Nuclear Medicine Course -
Annually 1985-2007

Teaching of Residents and Fellows in the Nuclear Medicine
Department - Monthly 1985-2002

Medical Center of Delaware: 1988-2000

Teaching of Radiology Residents with Lecture - Every 3
months

Core Pediatric Radiology Lectures - Annually

Teaching of Pediatric House Staff - Monthly (one-hour
session)

COMMUNITY ACTIVITIES:

Trustee of Samuel P. Mandell Foundation

Alavi-Mandell Prize for Young Investigator - Society of
Nuclear Medicine

Board of Directors Delaware Guidance Services Wilmington,
De.1994-2002.